

L Number	Hits	Search Text	DB	Time stamp
36	2517	(nozzle or sprayer or injector) with (mix\$3 and edge)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/06/13 18:03
43	177	((nozzle or sprayer or injector) near3 edge) with mix\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/06/13 18:09
50	14	"5,232,164"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/06/13 18:11
57	11	(("4284590") or ("4261511") or ("4161282") or ("4161281") or ("4018387") or ("3993246") or ("3240254") or ("2719056") or ("1436351") or ("1394452") or ("1038804")).PN.	USPAT	2003/06/13 18:15
63	13	((("5403522") or ("5129582") or ("5054688") or ("4971768") or ("4957242") or ("4940392") or ("4519423") or ("4285705") or ("3701482") or ("3525474") or ("3123285") or ("2638976") or ("1968348")).PN.	USPAT	2003/06/13 18:15

disperser or mix

41	132	((showerhead or diffuser or diffusion or permeator or permeation) same (gas and baffle and deflect\$3)) not (((showerhead or diffuser or baffle or diffusion or permeator or permeation) with (gas and plate)) same lip) or (((showerhead or diffuser or baffle or diffusion or permeator or permeation) with (gas and plate)) same lip) not ((showerhead or diffuser or baffle or diffusion or permeator or permeation) with (gas and plate and lip))) or (((showerhead or diffuser or baffle or diffusion or permeator or permeation) with (gas and plate and lip)))) or (((("6161500") or ("5595606") or ("5480678") or ("5453124") or ("5434110") or ("5433787") or ("5370739") or ("5356476") or ("5342471") or ("5273588") or ("5268034") or ("5180435") or ("5178905") or ("5173327") or ("5061511") or ("5052339") or ("5018479") or ("5010842") or ("4998503") or ("4987856") or ("4979465") or ("4908330") or ("4908329") or ("4898118") or ("4897709") or ("4853251") or ("4818563") or ("4801468") or ("4798165") or ("4792378") or ("4784874") or ("4778692") or ("4759947") or ("4728528") or ("4534816") or ("4209357")).PN.) or (((("5217559") or ("4311671") or ("5217559") or ("4311671") or ("5480678") or ("6432831") or ("4761269") or ("6098965") or ("6521858") or ("4951603") or ("6245396") or ("4979465") or ("5354412") or ("5399199") or ("4508054") or ("5252131") or ("6161500") or ("6123775") or ("6123775") or ("2245145") or ("6245192")).PN.))	USPAT; US_PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/06/13 16:19
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L Number	Hits	Search Text	DB	Time stamp
92	3289	((nozzle or sprayer or injector or showerhead) with (cone or conical)) and deposit\$4 not (((nozzle or sprayer or injector or showerhead) with (cone or conical)) and (137/211.ccls. or 137/211.5.ccls. or 118/715.ccls. or 118/\$.ccls.) and deposit\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/06/13 16:44
99	1464	((nozzle or sprayer or injector or showerhead) with (cone or conical)) and deposit\$4 not (((nozzle or sprayer or injector or showerhead) with (cone or conical)) and (137/211.ccls. or 137/211.5.ccls. or 118/715.ccls. or 118/\$.ccls.) and deposit\$4) and (substrate or article or wafer or work)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/06/13 16:45
106	1545	((nozzle or sprayer or injector or showerhead) near3 (cone or conical)) and deposit\$4 not (((nozzle or sprayer or injector or showerhead) with (cone or conical)) and (137/211.ccls. or 137/211.5.ccls. or 118/715.ccls. or 118/\$.ccls.) and deposit\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/06/13 16:45
48	14	("4122668") or ("6418874") or ("6156152") or ("5358740") or ("6197150") or ("4026321") or ("4757198") or ("5743457") or ("5678595") or ("5002928") or ("4389229") or ("6315858") or ("5070813") or ("4094492") or ("5070813").PN.	USPAT	2003/06/13 16:46
49	11	("3110319") or ("5564907") or ("5150734") or ("5678595") or ("4273291") or ("6056994") or ("5547714") or ("4805552") or ("5743457") or ("4319737") or ("5002928") or ("5002928").PN.	USPAT	2003/06/13 16:46
50	2	us-20020129768-\$.did.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/06/13 16:46
57	2	us-20020088545-\$.did.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/06/13 16:46
64	2	us-20020086106-\$.did.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/06/13 16:46
71	262	((nozzle or sprayer or injector or showerhead) with (cone or conical)) and (137/211.ccls. or 137/211.5.ccls. or 118/715.ccls. or 118/\$.ccls.) and deposit\$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/06/13 16:46
78	3	"4,481,228"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/06/13 16:46
85	4	("2884341") or ("2878143").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/06/13 16:46
113	720	((nozzle or sprayer or injector or showerhead) near3 (cone or conical)) and deposit\$4 not (((nozzle or sprayer or injector or showerhead) with (cone or conical)) and (137/211.ccls. or 137/211.5.ccls. or 118/715.ccls. or 118/\$.ccls.) and deposit\$4) and (((nozzle or sprayer or injector or showerhead) with (cone or conical)) and deposit\$4 not (((nozzle or sprayer or injector or showerhead) with (cone or conical)) and (137/211.ccls. or 137/211.5.ccls. or 118/715.ccls. or 118/\$.ccls.) and deposit\$4)) and (substrate or article or wafer or work)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/06/13 16:46
120	12	("3620454") or ("3592575") or ("3352492") or ("3111267") or ("2933259").PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/06/13 16:46

127	30	((“4171946”) or (“4171199”) or (“4162888”) or (“4157241”) or (“4096996”) or (“4014639”) or (“4012189”) or (“3923251”) or (“3881863”) or (“3869243”) or (“3733169”) or (“3694135”) or (“3632286”) or (“3574508”) or (“3529917”) or (“3493180”) or (“3490858”) or (“3409231”) or (“3406002”) or (“3404844”) or (“3360929”) or (“3211207”) or (“3003548”) or (“2790490”) or (“2655748”) or (“2502664”) or (“2109027”) or (“2090567”) or (“2090566”) or (“1953483”)).PN.	USPAT	2003/06/13 16:46
128	6	((“6070551”) or (“5614055”) or (“5772771”) or (“6143078”) or (“5522934”) or (“5290993”)).PN.	USPAT	2003/06/13 16:46
129	23	(US-4389229-\$ or US-5002928-\$ or US-5678595-\$ or US-5547714-\$ or US-6013155-\$ or US-4481228-\$ or US-4293755-\$ or US-4069974-\$ or US-4080927-\$ or US-3745969-\$ or US-6270862-\$ or US-4313721-\$ or US-4439401-\$ or US-3995811-\$ or US-3352492-\$ or US-3592575-\$ or US-3881863-\$ or US-5290993-\$ or US-5522934-\$ or US-5614055-\$ or US-5772771-\$ or US-6070551-\$ or US-6143078-\$).did.	USPAT	2003/06/13 16:46
130	6	“6,190,459”	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT	2003/06/13 16:47
137	16	((“6090209”) or (“5858526”) or (“5846597”) or (“5830623”) or (“5688565”) or (“5540772”) or (“5494858”) or (“5470802”)).PN.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT	2003/06/13 16:47
144	22	(US-6070551-\$ or US-6143078-\$ or US-6013155-\$ or US-6270862-\$ or US-5772771-\$ or US-5614055-\$ or US-5678595-\$ or US-5547714-\$ or US-5002928-\$ or US-5522934-\$ or US-5290993-\$ or US-4481228-\$ or US-4439401-\$ or US-4293755-\$ or US-4313721-\$ or US-4389229-\$ or US-3881863-\$ or US-3995811-\$ or US-4080927-\$ or US-4069974-\$ or US-3592575-\$ or US-3745969-\$).did.	USPAT	2003/06/13 16:49
145	1	(US-3352492-\$).did.	USOCR	2003/06/13 16:49
146	22	(US-6070551-\$ or US-6143078-\$ or US-6013155-\$ or US-6270862-\$ or US-5772771-\$ or US-5614055-\$ or US-5678595-\$ or US-5547714-\$ or US-5002928-\$ or US-5522934-\$ or US-5290993-\$ or US-4481228-\$ or US-4439401-\$ or US-4293755-\$ or US-4313721-\$ or US-4389229-\$ or US-3881863-\$ or US-3995811-\$ or US-4080927-\$ or US-4069974-\$ or US-3592575-\$ or US-3745969-\$).did.	USPAT	2003/06/13 16:49

L Number	Hits	Search Text	DB	Time stamp
3	173	((showerhead or diffuser or baffle or diffusion or permeator or permeation) with (gas and plate and lip))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/06/13 15:23
10	61	((showerhead or diffuser or baffle or diffusion or permeator or permeation) with (gas and plate)) same lip	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/06/13 15:26
17	13	(((showerhead or diffuser or baffle or diffusion or permeator or permeation) with (gas and plate)) same lip) not ((showerhead or diffuser or baffle or diffusion or permeator or permeation) with (gas and plate and lip))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/06/13 15:24
24	192	(((showerhead or diffuser or baffle or diffusion or permeator or permeation) with gas) same lip) not (((showerhead or diffuser or baffle or diffusion or permeator or permeation) with (gas and plate)) same lip) or (((showerhead or diffuser or baffle or diffusion or permeator or permeation) with (gas and plate)) same lip) not ((showerhead or diffuser or baffle or diffusion or permeator or permeation) with (gas and plate and lip)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/06/13 16:17
31	36	((("6161500") or ("5595606") or ("5480678") or ("5453124") or ("5434110") or ("5433787") or ("5370739") or ("5356476") or ("5342471") or ("5273588") or ("5268034") or ("5180435") or ("5178905") or ("5173327") or ("5061511") or ("5052339") or ("5018479") or ("5010842") or ("4998503") or ("4987856") or ("4979465") or ("4908330") or ("4908329") or ("4898118") or ("4897709") or ("4853251") or ("4818563") or ("4801468") or ("4798165") or ("4792378") or ("4784874") or ("4778692") or ("4759947") or ("4728528") or ("4534816") or ("4209357")).PN.	USPAT	2003/06/13 16:11
32	18	((("5217559") or ("4311671") or ("5217559") or ("4311671") or ("5480678") or ("6432831") or ("4761269") or ("6098965") or ("6521858") or ("4951603") or ("6245396") or ("4979465") or ("5354412") or ("5399199") or ("4508054") or ("5252131") or ("6161500") or ("6123775") or ("6123775") or ("2245145") or ("6245192")).PN.	USPAT	2003/06/13 16:11
34	1120	((showerhead or diffuser or diffusion or permeator or permeation) same (gas and baffle)) not (((showerhead or diffuser or baffle or diffusion or permeator or permeation) with (gas and plate)) same lip) or (((showerhead or diffuser or baffle or diffusion or permeator or permeation) with (gas and plate)) same lip) not ((showerhead or diffuser or baffle or diffusion or permeator or permeation) with (gas and plate and lip)) or (((showerhead or diffuser or baffle or diffusion or permeator or permeation) with (gas and plate)) same lip) not (((showerhead or diffuser or baffle or diffusion or permeator or permeation) with (gas and plate and lip)))) or (((("6161500") or ("5595606") or ("5480678") or ("5453124") or ("5434110") or ("5433787") or ("5370739") or ("5356476") or ("5342471") or ("5273588") or ("5268034") or ("5180435") or ("5178905") or ("5173327") or ("5061511") or ("5052339") or ("5018479") or ("5010842") or ("4998503") or ("4987856") or ("4979465") or ("4908330") or ("4908329") or ("4898118") or ("4897709") or ("4853251") or ("4818563") or ("4801468") or ("4798165") or ("4792378") or ("4784874") or ("4778692") or ("4759947") or ("4728528") or ("4534816") or ("4209357")).PN.) or (((("5217559") or ("4311671") or ("5217559") or ("4311671") or ("5480678") or ("6432831") or ("4761269") or ("6098965") or ("6521858") or ("4951603") or ("6245396") or ("4979465") or ("5354412") or ("5399199") or ("4508054") or ("5252131") or ("6161500") or ("6123775") or ("6123775") or ("2245145") or ("6245192")).PN.))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/06/13 16:19